

SERVO TRACK WRITER WITH HELIUM BEARING

ABSTRACT OF THE DISCLOSURE

A servo track writer assembly and method are provided for recording
5 servo pattern information on a disc. The servo track writer assembly includes a
spindle assembly, an actuator assembly and a servo recording head. The spindle
assembly has a hub, which supports the disc and a spindle motor for rotating the
hub. The actuator assembly has an actuator arm supported by an actuator
bearing for positioning the actuator arm relative to the disc. At least one of the
10 spindle motor and the actuator bearing has a gas-lubricated bearing with a
working fluid, which includes helium. The servo recording head is supported by
the actuator arm relative to the disc to record the servo pattern information on the
disc as the spindle motor rotates the disc and the actuator bearing positions the
actuator arm.